

Ochratoxin A (OTA) Rapid Test Kit

Technical Manual

(GICA)



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1 Principle and Application

The test kit is used for detecting Ochratoxin A (OTA) in various samples such as grains and animal feeds.

The kit is developed using the principle of competitive colloidal gold Immunochromatographic Assay (GICA). After the sample solution is added to sample hole, if OTA is present, it will bind with gold labeled antibodies, thereby preventing the labeled antibodies from binding to the OTA conjugates on the nitrocellulose membrane.

If the content of OTA in the sample solution is less than detection limit, it will make the test ("T") line colored (The color is consistent with the control line or deeper) and the result is negative. If the content is greater than detection limit, no color reaction will be produced (or color is lighter than the control line) and the result is positive.

2 Technique Data

Detection Limits:

grains and animal feeds 5ppb

3 Kit Content

Package specification	20T/Kit
Test device (with dropper and gold-labeled well)	20
OTA Assay Diluent	10mL×1
Instruction	1

4 Materials Required but Not Supplied

4.1 Equipment: grinder (for crushing solid samples), vortex mixer (for shake and mix), centrifuge, graduated transfer pipette, nitrogen evaporator and balance with a division value of 0.01 g.

4.2 Micropipettes: single-channel (20-200μL and 100-1000μL).

4.3 Reagent: Methanol.

5 Sample Pre-treatment

Please note that the labware must be clean. Use disposable droppers to avoid contamination of interference results.

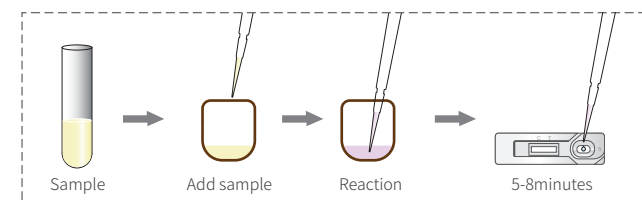
5.1 Cereal, Feed:

- 1) Take representative feed or grain samples, weighing more than 5 grams, and grind them (through a 20-mesh sieve). Accurately weigh 2 grams of the ground sample and place it in a 15 mL centrifuge tube.
- 2) Accurately add 3 mL of Methanol to a 15 mL centrifuge tube, tightly seal the cap, vigorously shake for 3 minutes, and centrifuge at 4000 rpm for 3 minutes.
- 3) Transfer 1 mL of the supernatant to a 5 mL centrifuge tube. Dry it using a nitrogen evaporator (normal to have

some yellowish oil in the bottom layer). Then add 0.3 mL of the OTA Assay Diluent to dissolve any solid residues at the bottom and inner wall of the centrifuge tube. What obtained is the sample solution.

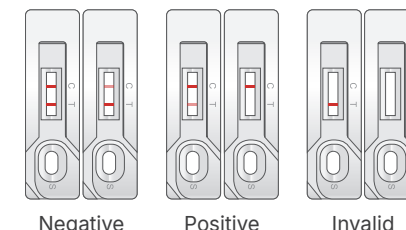
6 Test Steps

- 1) Tear the foil bag, take out of the test card, gold-labeled well and dropper. Then put them on a flat, clean work surface.
- 2) Use the provided dropper to draw 4-5 drops of the sample solution (or use a micropipette to transfer 120μL) into the gold-labeled well. Allow it to stand for 2 minutes, gently pipette up and down with the dropper (or a micropipette) to completely dissolve the purple-red substance at the bottom of the gold-labeled well. Allow it to stand for another 2 minutes. Draw all the liquid from the gold-labeled well and transfer it to the sample hole("S") on the test card. Start the timer.
- 3) Results should be read at 5-8 minutes, and any readings taken after 30 minutes is considered invalid.



7 Results Judgement

Negative: Test ("T") line and control("C") line both appear in the result window. The color of the test ("T") line is consistent or deeper than the control("C")



line. It indicates that the concentration of OTA in the sample is below the detection limit, or absent.

Positive: In the result window, the control("C") line appears, while the Test("T") line does not appear or appears lighter in color than the control("C") line. It indicates that the concentration of OTA in the sample is above the detection limit.

Invalid: If the control("C") line does not appear, the result might be considered invalid.

8 Notice |

8.1 Don't use the expired or damaged products.

8.2 When the test card is taken out of the refrigerator, it should be restored to the room temperature and then opened. The opened test card should be used as soon as possible to avoid failure after being affected by moisture.

8.3 Avoid touching the white nitrocellulose membrane in the middle of the detection card.

8.4 In order to avoid cross-contamination, the droppers cannot pipet another Solution after pipetting one.

8.5 The sample solution to be examined needs to be clear and free of turbid particles. Otherwise, it is prone to lead to blockage, non-obvious color development and other abnormalities, affecting the determination of the experimental results.

9 Storage Conditions |

The kit shall be stored at 2°C to 30°C (35.6°F to 86°F) in dry environment.

Shelf life: 12 months. The date of manufacture is presented in the label of the box.